

Schmitzer

CRF Errors Corrected by the STIC System Branch

1632

Serial Number: 08/973,363

CRF Processing Date: 11/18/2000
Edited by: AV
Verified by: AV (STIC staff)

Changed a file from non-ASCII to ASCII

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

Edited a format error in the Current Application Data section, specifically: ENTERED

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____.

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included: _____

Deleted extra, invalid, headings used by an applicant, specifically: _____

Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as _____

Inserted mandatory headings, specifically: _____

Corrected an obvious error in the response, specifically: _____

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically: _____

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

Other: Moved (iv) CORRECT, ADDRESS: section up a few lines

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/973,363**

DATE: 01/18/2000
TIME: 14:03:25

INPUT SET: S34486.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/973,363DATE: 01/18/2000
TIME: 14:03:25

INPUT SET: S34486.raw

47 (C) TELEX:
 48 (2) INFORMATION FOR SEQ ID NO: 1:
 49 (i) SEQUENCE CHARACTERISTICS:
 50 (A) LENGTH: 723 base pairs
 51 (B) TYPE: nucleic acid
 52 (C) STRANDEDNESS: double
 53 (D) TOPOLOGY: linear
 54 (ii) MOLECULE TYPE: DNA (genomic)
 55 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 56 CCCGGTCGGA GGTTTCAAGG AATGACTAGA TGTGGCACTT AGTGCATGG TCTAGTTGAC 60
 57 AAGGTGATGG TTGGTCAAAA GTTGGACTCG ATGATCTCAG AGTTTTTTTC CAGCCTTAAT 120
 58 AATTCTATGA ATTCTGTAAT TTTATTCTTG ATCTTTTGA GCGAAGTTTG TTTGGGGATT 180
 59 TTAGTTGGT TTCCCTGTCA CTGTTTCTT TCCTTGAAAC TGACTTTCAT TTGCAACATG 240
 60 AGAATTGCTG TATTGTCAG GTTACAAGTA GTGCAATGGC TGCTTAGAAG TAGTGAGAAA 300
 61 CATTAGGGA AATACTGGAG TGAAGCAAC ACAGTGGTAC TGCCAAACTG TAGCTTTGGG 360
 62 ATTTGAGGAG CCACAGAGT GTATATAAAT TTGTTTAATG ATATCCTGCC CCTGCCTTCC 420
 63 ATTAATTGCT TGTTTTATGA AACCACTCTT TTTTTTTTTT GGCTTCCTCA 480
 64 TATCCTGTGG TAATGAGTTA ATGCATTTAG AAGCACATGG CAGAACTAGG AGATCTGTGG 540
 65 ATGACAGTGG TACAGGAGCT CTGAATTTTT TAGATAAACT ATGAGAGTGG AAACAGAAAAT 600
 66 CTGAGGCTAG TTTCTTGAGC TGACTGTAAA TTTTGAGA ATATTTCAA GACTACATTA 660
 67 GTTGTGTGTT TGAGGAAAAAA TAAAATGTTT AAGTTGTCCA TTCTTGAAA CCTCCCGACC 720
 68 GGG 723
 69
 70 (2) INFORMATION FOR SEQ ID NO: 2:
 71 (i) SEQUENCE CHARACTERISTICS:
 72 (A) LENGTH: 153 base pairs
 73 (B) TYPE: nucleic acid
 74 (C) STRANDEDNESS: double
 75 (D) TOPOLOGY: linear
 76 (ii) MOLECULE TYPE: cDNA
 77
 78 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 79 ATTCTTCAG ATGATCCTGA TAAAAAAACCA CAAGCAAAAC AGTTACAGAC CAAAAAAACCA 60
 80 CAAGCAAAAC AGTTACAGAC CCGTGCAGAC TACCTCATCA AACTACTTAG CAGAGATCTT 120
 81 GCAAAAGAG AGGCTCAGAG ACTTTGTGGT GCG 153
 82
 83 (2) INFORMATION FOR SEQ ID NO: 3:
 84 (i) SEQUENCE CHARACTERISTICS:
 85 (A) LENGTH: 153 base pairs
 86 (B) TYPE: nucleic acid
 87 (C) STRANDEDNESS: double
 88 (D) TOPOLOGY: linear
 89 (ii) MOLECULE TYPE: cDNA
 90 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
 91 ATTTTACCTG ATGATCCAGA CAAGAAACCC CAGGCAAAGC AGCTACAGAC CAAGAAACCC 60
 92 CAGGCAAAGC AGCTACAGAC CCGTGCAGAC TACCTCATTA AATTACTGAA TAAAGACCTT 120
 93 GCAAGAAAGG AAGCACAAAG GCTTGCTGGT GCA 153
 94 (2) INFORMATION FOR SEQ ID NO: 4:
 95
 96 (i) SEQUENCE CHARACTERISTICS:
 97 (A) LENGTH: 153 base pairs
 98 (B) TYPE: nucleic acid
 99 (C) STRANDEDNESS: double

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100 (D) TOPOLOGY: linear
101 (ii) MOLECULE TYPE: cDNA
102 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
103
104 ATTTTACCTG ATGATCCAGA TAAGAAACCC CAGGCTAACGC AGTTACAGAC CAAGAAACCC 60
105 CAGGCTAACGC AGTTACAGAC CCGTGCAGAT TACCTCATTA AATTACTGAA TAAAGACCTT 120
106 GCAAGAAAGG AAGCACAGAG ACTTGCTGGT GCA 153
107
108 (2) INFORMATION FOR SEQ ID NO: 5:
109 (i) SEQUENCE CHARACTERISTICS:
110 (A) LENGTH: 153 base pairs
111 (B) TYPE: nucleic acid
112 (C) STRANDEDNESS: double
113 (D) TOPOLOGY: linear
114 (ii) MOLECULE TYPE: cDNA
115 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
116 ATTTTACCTG ATGACCCAGA TAAGAAACCA CAGGCAAAGC AGTTGCAGAC CAAGAAACCA 60
117 CAGGCAAAGC AGTTGCAGAC CCGTGCAGAT TACCTCATTA AATTACTGAA TAAAGACCTT 120
118 GCAAGAAAAG AAGTGCAGAG ACTTACTGGT GCA 153
119
120 (2) INFORMATION FOR SEQ ID NO: 6:
121 (i) SEQUENCE CHARACTERISTICS:
122 (A) LENGTH: 41 amino acids
123 (B) TYPE: amino acid
124 (C) STRANDEDNESS:
125 (D) TOPOLOGY: linear
126 (ii) MOLECULE TYPE: peptide
127 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
128 Ile Leu Pro Asp Asp Pro Asp Lys Lys Pro Gln Ala Lys Gln Leu Gln 15
129 1 5 10 15
130 Thr Arg Ala Asp Tyr Leu Ile Lys Leu Leu Ser Arg Asp Leu Ala Lys
131 20 25 30
132 Arg Glu Ala Gln Arg Leu Cys Gly Ala
133 35 40
134
135 (2) INFORMATION FOR SEQ ID NO: 7:
136 (i) SEQUENCE CHARACTERISTICS:
137 (A) LENGTH: 41 amino acids
138 (B) TYPE: amino acid
139 (C) STRANDEDNESS:
140 (D) TOPOLOGY: linear
141 (ii) MOLECULE TYPE: peptide
142 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
143 Ile Leu Pro Asp Asp Pro Asp Lys Lys Pro Gln Ala Lys Gln Leu Gln 15
144 1 5 10 15
145 Thr Arg Ala Asp Tyr Leu Ile Lys Leu Leu Asn Lys Asp Leu Ala Arg
146 20 25 30
147 Lys Glu Ala Gln Arg Leu Ala Gly Ala
148 35 40
149
150 (2) INFORMATION FOR SEQ ID NO: 8:
151 (i) SEQUENCE CHARACTERISTICS:
152 (A) LENGTH: 41 amino acids

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/973,363DATE: 01/18/2000
TIME: 14:03:26

INPUT SET: S34486.raw

153 (B) TYPE: amino acid
 154 (C) STRANDEDNESS:
 155 (D) TOPOLOGY: linear
 156 (ii) MOLECULE TYPE: peptide
 157 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
 158 Ile Leu Pro Asp Asp Pro Asp Lys Lys Pro Gln Ala Lys Gln Leu Gln
 159 1 5 10 15
 160 Thr Arg Ala Asp Tyr Leu Ile Lys Leu Leu Asn Lys Asp Leu Ala Arg
 161 20 25 30
 162 Lys Glu Ala Gln Arg Leu Ala Gly Ala
 163 35 40
 164
 165 (2) INFORMATION FOR SEQ ID NO: 9:
 166 (i) SEQUENCE CHARACTERISTICS:
 167 (A) LENGTH: 41 amino acids
 168 (B) TYPE: amino acid
 169 (C) STRANDEDNESS:
 170 (D) TOPOLOGY: linear
 171 (ii) MOLECULE TYPE: peptide
 172 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
 173 Ile Leu Pro Asp Asp Pro Asp Lys Lys Pro Gln Ala Lys Gln Leu Gln
 174 1 5 10 15
 175 Thr Arg Ala Asp Tyr Leu Ile Lys Leu Leu Asn Lys Asp Leu Ala Arg
 176 20 25 30
 177 Lys Glu Val Gln Arg Leu Thr Gly Ala
 178 35 40
 179
 180 (2) INFORMATION FOR SEQ ID NO: 10:
 181 (i) SEQUENCE CHARACTERISTICS:
 182 (A) LENGTH: 6608 base pairs
 183 (B) TYPE: nucleic acid
 184 (C) STRANDEDNESS: double
 185 (D) TOPOLOGY: linear
 186 (ii) MOLECULE TYPE: cDNA
 187 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
 188 CGGGCTGGGG CACGAAGCGC ACCGCCGGCG CACCGAGGCT CGGGCCGGGG AAGGCCTGGC 60
 189 CCGCCGAGCC GGACGCCACGC AGGTATTTGG GCAAAAATCT TGGCCATCTG TAGAGAATAG 120
 190 CAAGTCAAAC GCATTACTTC GAAAACATAC GGAGTACCAAG AAAGGGGATT CTTGACCTAC 180
 191 ACCTTGTAAAC CTGAGTGGAC TTTCCTTTTA ACTTCTTAAT ACTTACAATG AATGGGCACA 240
 192 GTGATGAAGA AAGTGTAAAGA AACAGCAGTG GAGAGTCAAG CAGATCAGAT GATGATTCTG 300
 193 GGTCAGCTTC AGGTTCTGGA TCTGGTTCAA GCTCTGGAAG CAGTAGCGAT GGAAGTAGCA 360
 194 GCCAGTCAGG TAGCAGTGAC TCTGAATCTG GTTCAGAGTC AGGCAGTCAA TCCGAATCAG 420
 195 AGTCTGACAC ATCTAGAGAG AAGAAAACAAG TTCAAGCTAA ACCTCCGAAA GCTGACGGAT 480
 196 CTGAGTTTG GAAGTCCAGT CCAAGCATAAC TTGCTGTACA GAGATCAGCA GTGCTCAAGA 540
 197 AGCAACAGCA ACAGCAAAAA GCAGCATCAT CAGACAGTGG TTCAGAAGAG GACTCATCCA 600
 198 GTAGTGAAGA TTCTGCCGAT GATTCTGTCGA GTGAAACTAA GAAGAAAAAG CATAAAAGATG 660
 199 AAGACTGGCA AATGTCAGGG TCAGGGTCAG TATCAGGAAC TGGTTCTGAT TCTGAATCGG 720
 200 CGGAAGATGG GGATAAAAGC AGTTGTGAAG AAAGTGAATC TGACTATGAG CCAAAAAACA 780
 201 AAGTCAAAG CCGTAAACCT CCAAGCAGAA TTAAGCCAAA AAGTGGAAA AAGAGCACAG 840
 202 GACAGAAGAA GAGGCAACTT GATTCTGTCAG AGGAGGAGGA GGACGATGAT GAAGATTATG 900
 203 ATAAGAGAGG ATCTCGTCGC CAGGCAACAG TGAATGTTAG TTACAAAGAA GCTGAAGAAA 960
 204 CCAAGACAGA TTCTGATGAT TTGCTGGAAG TTTGTGGAGA GGATGTCCCA CAGACTGAAG 1020
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RAW SEQUENCE LISTING
PATENT APPLICATION US/08/973,363DATE: 01/18/2000
TIME: 14:03:26

INPUT SET: S34486.raw

206	AAGATGAATT	TGAAA	ACTATA	GAGAAG	TTTA	TGGACAG	TCG	AATT	GGCCGA	AAAGGAG	CCA	1080						
207	CTGGTGC	CTC	AACCAC	CATC	TATG	CCGTTG	AGGCAG	ATGG	TGAC	CCAA	AT	1140						
208	AAAAGT	CAAA	GGAGC	TGGG	GA	AAATAC	AGT	ATCTT	AT	GGAA	AGGC	1200						
209	TCC	CATAAC	AC	TTGG	AA	ACTG	AAAC	CG	TGA	AGCA	ACA	1260						
210	AACTGG	ACAA	CTAC	AAGA	AAA	AAGGAT	CAGG	AGAC	AAA	AC	CTGCTG	1320						
211	CAGAAG	ATGT	GGA	AT	TAT	TA	ACTG	CCAGC	AGGAG	CTTAC	AGATGAT	CTG	1380					
212	ATCAA	AAAT	AGT	GGAAA	AGATA	ATTG	GCTC	ATT	CAA	ATC	AAGT	GGAGCT	1440					
213	ACTACT	ATTG	CAA	ATGG	CAG	GGT	CTGC	CTT	ACTC	AGATG	TAGCT	GGGAA	1500					
214	TCATTG	CCAA	AAAG	TTTC	CAG	GCAC	GCAT	TTG	ATGAGT	TATT	TAGC	CAGAA	1560					
215	CTACT	CCCT	TAAG	GGACT	TC	AAGG	TTCTAA	AA	CAGA	GAGACC	AAGA	TTTGTT	GCAC	1620				
216	AGCAAC	CATC	TTAC	ATTG	GA	GGAC	ATGAAA	GT	CTGG	AGTT	AAGA	GATT	TAT	1680				
217	GATT	GAATTG	GCTCG	CTCAT	TCAT	GGT	GCA	AAGG	AAATAG	TTG	TATT	CTT	GCAG	ATGAAA	1740			
218	TGGGT	CTGGG	TAAA	ACAATA	CAA	ACA	ATT	TTT	CTGAA	CTAC	CTG	TTT	CATG	AAACATC	1800			
219	AACT	GTATGG	CCCT	TTTC	CTG	CGC	GTG	CACT	TTCTAC	CTTG	ACAT	CT	TGGC	AAAGAG	1860			
220	AGATT	CAAC	TTGG	CTC	C	CAGA	GTGAA	ATG	CTG	AGT	TTA	TTGAG	ATA	ACTAGT	1920			
221	GAA	ATATG	ATG	AAGG	ACT	CAT	GAAT	GGATG	TC	ATCC	ACAGAC	AA	AGT	TTAAC	1980			
222	TACT	TCTG	AC	GAC	ATAT	GAA	AT	TTT	ACTG	AGG	ATA	AGTC	ATT	GGTCTCA	2040			
223	GGGC	ATT	CAT	AGG	AGT	TG	GAAG	CTAC	GTT	AAAAAA	TGAT	GACT	CT	TTCTGT	AC	2100		
224	GG	ACT	TTAA	AG	ACT	TAAG	TCCA	ACC	ATC	GACT	TCTG	GAT	TACT	GGAA	CCACTG	2160		
225	AT	TTCC	CTCAA	AG	AGC	TGT	GG	TCTT	GTTG	AT	TT	CAT	CAT	GCC	AGAAAA	2220		
226	GGGA	AGAT	TTT	TGA	AGAG	GAG	CATG	GC	AA	GAAG	GAG	TG	TTT	TATG	CA	2280		
227	AAG	AGCT	TG	ACC	ATT	TTA	CTA	AGA	AGAG	TT	AAA	AAA	AGA	TG	AGAAA	2340		
228	CTA	AGG	TG	AC	AA	ATT	CTG	AGG	ATG	G	G	TG	CATT	GCAG	AAAG	2400		
229	GG	ATTT	TAAC	AAG	GAATT	TAT	AAAG	CC	C	GT	AA	GG	TT	AC	GGCT	2460		
230	TTCT	GAAC	CAT	TAT	GAT	GG	AA	CTT	AAGA	AG	TT	GTA	AC	CT	TT	ATGCCAC	2520	
231																		
232	CAGA	TGATA	AA	TGA	ATT	TCT	AT	ATA	AA	CAG	GG	AG	GC	TT	GATA	CGTAGCAGCG	2580	
233	GGAA	AACT	AA	TAT	CTT	CTG	AC	AAG	CT	ACT	G	TG	GC	GC	AAC	AGAGTTC	2640	
234	TG	ATTT	CTC	TC	AGA	TGG	TG	AGG	AT	GCT	GC	G	TC	GC	TAT	CGCC	2700	
235	AG	TTT	CC	CA	CC	AGA	GAC	TT	GAT	CAA	AAA	AGG	GG	AA	AG	CAACTGG	2760	
236	ATC	AT	TTT	CAA	TG	CAGA	AGG	TA	CAG	AGG	ATT	GAG	GA	AG	AG	CTGGAG	2820	
237	GATT	AGGT	TAT	TAAC	TGG	CA	TCTG	CTG	A	CTG	TGTT	TT	TGTT	T	GACT	GGAAATC	2880	
238	CAC	AGA	ATG	A	TCTG	CAGG	GC	CAG	GG	GAG	AG	CT	CA	GA	AA	ACAGGTTA	2940	
239	AT	AT	TTT	TAT	CG	TCTG	AC	AA	AGG	ATC	AG	GA	AG	AA	AG	AGCCAAGA	3000	
240	AGA	AGA	TG	GT	CTG	AC	AGG	AC	AT	TA	TC	AG	GA	AT	GG	AAA	ACTGTT	3060
241	TG	CAT	AC	AGG	TT	CA	AACT	CTCA	AC	CTT	TTAA	TA	AA	GA	AG	AG	TTATCAGCTA	3120
242	TTT	TG	AA	GAG	TT	TGG	GCT	GAG	GA	ACT	CTT	TA	A	GA	GG	AG	CAGCCC	3180
243	AGG	AA	AT	GG	A	TAT	GAT	GAA	AT	CTT	GA	AG	G	AA	CC	AGG	GTC	3240
244	CATT	GACT	GT	AGGG	GAT	GG	TG	CTT	TC	AC	AGT	CA	AG	TT	GG	CC	AACTTT	3300
245	ATG	AA	GAT	GA	TAT	TGG	AGT	GA	ACC	AG	AA	TG	GG	AA	TC	ATCC	3360	
246	CAG	AAT	CCC	CA	CGG	AGA	AGG	AT	AGG	GAG	AG	GA	AA	AC	TT	GA	AA	3420
247	AC	ATG	C	CCC	GAG	GAT	GAGA	AA	CTG	CAA	AA	CAG	AT	CG	TT	TA	ATGGG	3480

PAGE: 1

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/973,363**

DATE: 01/19/2000
TIME: 01:34:47

INPUT SET: S34486.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1 SEQUENCE LISTING
2
3 (1) General Information:
4 (i) APPLICANT:
5 (A) NAME: GRIFFITHS, RICHARD
6 (B) STREET: 20 (TR) Woodcroft Avenue, Broomhill,
7 (C) CITY: Glasgow
8 (E) COUNTRY: United Kingdom
9 (F) POSTAL CODE (ZIP): G11 7HX
10
11 (A) NAME: TIWARI, BELA
12 (B) STREET: 4 Upway Road
13 (C) CITY: Oxford
14 (E) COUNTRY: United Kingdom
15 (F) POSTAL CODE (ZIP): OX3 9QH
16 (ii) TITLE OF INVENTION: AVIAN GHD GENES AND THEIR USE IN METHODS FOR
17 SEX IDENTIFICATION IN BIRDS
18 (iii) NUMBER OF SEQUENCES: 39
19 (iv) COMPUTER READABLE FORM:
20 (A) MEDIUM TYPE: Floppy disk
21 (B) COMPUTER: IBM PC compatible
22 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
23 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
24 (vi) CURRENT APPLICATION DATA: *in add heading*
25 (vii) (vii) PRIOR APPLICATION DATA:
26 (A) APPLICATION NUMBER: WO PCT/GB96/01341
27 (B) FILING DATE: 05-JUN-1996
28 (vii) (vii) PRIOR APPLICATION DATA:
29 (A) APPLICATION NUMBER: GB 9511439.3
30 (B) FILING DATE: 06-JUN-1995
31 (iv) (vii) CORRESPONDENCE ADDRESS:
32 (A) ADDRESSEE: WENDEROTH, LIND & PONACK, L.L.P.
33 (B) STREET: 2033 K. Street, N.W., Suite 800,
34 (C) CITY: Washington
35 (D) STATE: D.C.
36 (E) COUNTRY: U.S.A.
37 (F) ZIP: 20006
38 (viii) ATTORNEY/AGENT INFORMATION:
39 (A) NAME: Warren M Cheek, Jr.
40 (B) REGISTRATION NUMBER: 33,367
41 (C) REFERENCE/DOCKET NUMBER: 263/PPNTIR1172US
42 (ix) TELECOMMUNICATION INFORMATION:
43 (A) TELEPHONE: (202)-721-8200
44 (B) TELEFAX: (202)-721-8250
45 (C) TELEX:
46 (2) INFORMATION FOR SEQ ID NO: 1:

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/973,363**

DATE: 01/19/2000
TIME: 01:34:48

INPUT SET: S34486.raw

47 (i) SEQUENCE CHARACTERISTICS:
 48 (A) LENGTH: 723 base pairs
 49 (B) TYPE: nucleic acid
 50 (C) STRANDEDNESS: double
 51 (D) TOPOLOGY: linear
 52 (ii) MOLECULE TYPE: DNA (genomic)
 53 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 54 CCCGGTCGGA GGTTTCAAGG AATGACTAGA TGTGGCACTT AGTGCCATGG TCTAGTTGAC 60
 55 AAGGTGATGG TTGGTCAAAA GTTGGACTCG ATGATCTAG AGTTTTTTTC CAGCCTTAAT 120
 56 AATCTATGA ATTCTGTAAT TTTATTCTTG ATCTTTTTGA GCGAAGTTG TTTGGGGATT 180
 57 TTAGTTTGGT TTCCCTGTCA CTGTTTCTT TCCCTGAAAC TGACTTTCAT TTGCAACATG 240
 58 AGAATTGCTG TATTGTCAG GTTACAAGTA GTGCAATGGC TGCTTAGAAG TAGTGAGAAA 300
 59 CATTTAGGGA AATACTGGAG TGAAGCAAAC ACAGTGGTAC TGCCAAACTG TAGCTTTGGG 360
 60 ATTTGAGGAG CCACAGAGTT GTATATAAAT TTGTTTAATG ATATCCGTCC CCTGCCTTCC 420
 61 ATTAATTGCT TGTTTTATGA AACCACTCTT TTTTTTTTTT TTTTTTTTTT GGCTTCTTCA 480
 62 TATCCTGTGG TAATGAGTTA ATGCATTTAG AAGCACATGG CAGAACTAGG AGATCTGTGG 540
 63 ATGACAGTGG TACAGGAGCT CTGAATTTTT TAGATAAAACT ATGAGAGTGG AACAGAAAT 600
 64 CTGAGGCTAG TTTCTTGAGC TGACTGTAAA TTTTGTGAGA ATATTTCAA GACTACATTA 660
 65 GTTGTGTGTT TGAGGAAAAA TAAAATGTTT AAGTTGTCCA TTCCTGAAA CCTCCCGACC 720
 66 GGG
 67
 68 (2) INFORMATION FOR SEQ ID NO: 2:
 69 (i) SEQUENCE CHARACTERISTICS:
 70 (A) LENGTH: 153 base pairs
 71 (B) TYPE: nucleic acid
 72 (C) STRANDEDNESS: double
 73 (D) TOPOLOGY: linear
 74 (ii) MOLECULE TYPE: cDNA
 75
 76 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 77 ATTCTCCAG ATGATCCTGA TAAAAAACCA CAAGCAAAAC AGTTACAGAC CAAAAAACCA 60
 78 CAAGCAAAAC AGTTACAGAC CCGTGCAGAC TACCTCATCA AACTACTTAG CAGAGATCTT 120
 79 GCAAAAGAG AGGCTCAGAG ACTTTGTGGT GCG
 80
 81 (2) INFORMATION FOR SEQ ID NO: 3:
 82 (i) SEQUENCE CHARACTERISTICS:
 83 (A) LENGTH: 153 base pairs
 84 (B) TYPE: nucleic acid
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 86 (D) TOPOLOGY: linear
 87 (ii) MOLECULE TYPE: cDNA
 88 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
 89 ATTTTACCTG ATGATCCAGA CAAGAACCC CAGGCAAAGC AGCTACAGAC CAAGAACCC 60
 90 CAGGCAAAGC AGCTACAGAC CCGTGCAGAC TACCTCATTA AATTACTGAA TAAAGACCTT 120
 91 GCAAGAAAGG AAGCACAAG GCTTGTGGT GCA
 92 (2) INFORMATION FOR SEQ ID NO: 4:
 93
 94 (i) SEQUENCE CHARACTERISTICS:
 95 (A) LENGTH: 153 base pairs
 96 (B) TYPE: nucleic acid
 97 (C) STRANDEDNESS: double
 98 (D) TOPOLOGY: linear
 99 (ii) MOLECULE TYPE: cDNA

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/973,363DATE: 01/19/2000
TIME: 01:34:48

INPUT SET: S34486.raw

100 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
101
102 ATTTTACCTG ATGATCCAGA TAAGAAACCC CAGGCTAACGC AGTTACAGAC CAAGAAACCC 60
103 CAGGCTAACGC AGTTACAGAC CCGTGCAGAT TACCTCATTA ATTACTGAA TAAAGACCTT 120
104 GCAAGAAAGG AACACAGAG ACTTGCTGGT GCA 153
105
106 (2) INFORMATION FOR SEQ ID NO: 5:
107 (i) SEQUENCE CHARACTERISTICS:
108 (A) LENGTH: 153 base pairs
109 (B) TYPE: nucleic acid
110 (C) STRANDEDNESS: double
111 (D) TOPOLOGY: linear
112 (ii) MOLECULE TYPE: cDNA
113 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
114 ATTTTACCTG ATGACCCAGA TAAGAAACCA CAGGCAAAGC AGTTGCAGAC CAAGAAACCA 60
115 CAGGCAAAGC AGTTGCAGAC CCGTGCAGAT TACCTCATTA ATTACTGAA TAAAGACCTT 120
116 GCAAGAAAAG AAGTGCAAAG ACTTACTGGT GCA 153
117
118 (2) INFORMATION FOR SEQ ID NO: 6:
119 (i) SEQUENCE CHARACTERISTICS:
120 (A) LENGTH: 41 amino acids
121 (B) TYPE: amino acid
122 (C) STRANDEDNESS:
123 (D) TOPOLOGY: linear
124 (ii) MOLECULE TYPE: peptide
125 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
126 Ile Leu Pro Asp Asp Pro Asp Lys Lys Pro Gln Ala Lys Gln Leu Gln
127 1 5 10 15
128 Thr Arg Ala Asp Tyr Leu Ile Lys Leu Leu Ser Arg Asp Leu Ala Lys
129 20 25 30
130 Arg Glu Ala Gln Arg Leu Cys Gly Ala
131 35 40
132
133 (2) INFORMATION FOR SEQ ID NO: 7:
134 (i) SEQUENCE CHARACTERISTICS:
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140 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
141 Ile Leu Pro Asp Asp Pro Asp Lys Lys Pro Gln Ala Lys Gln Leu Gln
142 1 5 10 15
143 Thr Arg Ala Asp Tyr Leu Ile Lys Leu Leu Asn Lys Asp Leu Ala Arg
144 20 25 30
145 Lys Glu Ala Gln Arg Leu Ala Gly Ala
146 35 40
147
148 (2) INFORMATION FOR SEQ ID NO: 8:
149 (i) SEQUENCE CHARACTERISTICS:
150 (A) LENGTH: 41 amino acids
151 (B) TYPE: amino acid
152 (C) STRANDEDNESS:

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PATENT APPLICATION US/08/973,363DATE: 01/19/2000
TIME: 01:34:49

INPUT SET: S34486.raw

153 (D) TOPOLOGY: linear
 154 (ii) MOLECULE TYPE: peptide
 155 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
 156 Ile Leu Pro Asp Asp Pro Asp Lys Lys Pro Gln Ala Lys Gln Leu Gln
 157 1 5 10 15
 158 Thr Arg Ala Asp Tyr Leu Ile Lys Leu Leu Asn Lys Asp Leu Ala Arg
 159 20 25 30
 160 Lys Glu Ala Gln Arg Leu Ala Gly Ala
 161 35 40
 162
 163 (2) INFORMATION FOR SEQ ID NO: 9:
 164 (i) SEQUENCE CHARACTERISTICS:
 165 (A) LENGTH: 41 amino acids
 166 (B) TYPE: amino acid
 167 (C) STRANDEDNESS:
 168 (D) TOPOLOGY: linear
 169 (ii) MOLECULE TYPE: peptide
 170 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
 171 Ile Leu Pro Asp Asp Pro Asp Lys Lys Pro Gln Ala Lys Gln Leu Gln
 172 1 5 10 15
 173 Thr Arg Ala Asp Tyr Leu Ile Lys Leu Leu Asn Lys Asp Leu Ala Arg
 174 20 25 30
 175 Lys Glu Val Gln Arg Leu Thr Gly Ala
 176 35 40
 177
 178 (2) INFORMATION FOR SEQ ID NO: 10:
 179 (i) SEQUENCE CHARACTERISTICS:
 180 (A) LENGTH: 6608 base pairs
 181 (B) TYPE: nucleic acid
 182 (C) STRANDEDNESS: double
 183 (D) TOPOLOGY: linear
 184 (ii) MOLECULE TYPE: cDNA
 185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
 186 CGGGCTGCGG CACGAAGCGC ACCGCCGGCG CACGCAGGCT CGGGCCGGGG AAGGCCCTGGC 60
 187 CCGCCGAGCC GGACGACCGC AGGTATTTG GCAAAAATCT TGGCCATCTG TAGAGAATAG 120
 188 CAAGTCAAC GCATTACTTC GAAAACATAC GGAGTACCG AAAGGGGATT CTTGACCTAC 180
 189 ACCTTGTAAAC CTGAGTGGAC TTTCTTTTA ACTTCTTAAT ACTTACAATG AATGGGCACA 240
 190 GTGATGAAGA AAGTGTAAAGA AACAGCAGTG GAGAGTCAAG CAGATCAGAT GATGATTCTG 300
 191 GGTCAGCTTC AGGTTCTGGA TCTGGTTCAA GCTCTGGAAG CAGTAGCGAT GGAAGTAGCA 360
 192 GCCAGTCAGG TAGCAGTGCAC TCTGAATCTG GTTCAGAGTC AGGCAGTCAA TCCGAATCAG 420
 193 AGTCTGACAC ATCTAGAGAG AAGAAAACAAG TTCAAGCTAA ACCTCCGAAA GCTGACGGAT 480
 194 CTGAGTTTTG GAAGTCCAGT CCAAGCATAAC TTGCTGTACA GAGATCAGCA GTGCTCAAGA 540
 195 AGCAACAGCA ACAGAAAAAA GCAGCATCAT CAGACAGTGG TTCAAGAGAG GACTCATCCA 600
 196 GTAGTGAAGA TTCTGCCGAT GATTGTCATCA GTGAAACTAA GAAGAAAAAG CATAAAAGATG 660
 197 AAGACTGGCA AATGTCAGGG TCAGGGTCAG TATCAGGAAC TGGTTCTGAT TCTGAATCGG 720
 198 CGGAAGATGG GGATAAAAGC AGTTGTGAAG AAAGTGAATC TGACTATGAG CCAAAAAACA 780
 199 AAGTCAAAG CCGTAAACCT CCAAGCAGAA TTAAGCAAA AAGTGGAAA AAGAGCACAG 840
 200 GACAGAAGAA GAGGCAACCT GATTGTCATCA AGGAGGAGGA GGACGATGAT GAAGATTATG 900
 201 ATAAGAGAGG ATCTCGTCGC CAGGCAACAG TGAATGTTAG TTACAAAGAA GCTGAAGAAA 960
 202 CCAAGACAGA TTCTGATGAT TTGCTGGAAG TTTGTGGAGA GGATGTCCCA CAGACTGAAAG 1020
 203
 204 AAGATGAATT TGAAACTATA GAGAAGTTA TGGACAGTCG AATTGGCCGA AAAGGAGCCA 1080
 205 CTGGTGCCTC AACCAACCATC TATGCCGTTG AGGCAGATGG TGACCCAAAT GCTGGGTTG 1140

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219	GAAATATGAT AAGGACTCAT GAATGGATGC ATCCACAGAC TAAACGATTA AAGTTAACAA	1980
220	TACTTCTGAC GACATATGAA ATTTTACTGA AGGATAAGTC ATTCTCTGGT GGTCTCAATT	2040
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251	AAAGAGCAGG AGGTAGACTT GGAAAGTTA AAGGCCAAC GTTTCGAATC TCAGGAGTGC	3840
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256	ATGGCTATGG CAGCTGGAA ATGATAAAAAA TGGATCCAGA TCTCAGCTTA ACACAGAAGA	4080
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